SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY **APPLICANTS**

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| Application Number | 10/813,967 |
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| Filing Date | March 31, 2004 |
| First Named Inventor | Clarence T. Tegreene |
| Group Art Unit | 2681 |
| Examiner Name | To be Assigned |
| Attorney Docket Number | 0104-003-006-000000 |

| | | U.S. PAT | ENT DOCUMENTS | |
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| Examiner Initials | Cite No. | Date of Publication (MM-DD-YYYY) | | |
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| | | FOREIGN PATEN | T DOCUMENTS | | |
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| Examiner Initials | Cite No. | Document Number | Country | Date of Publication (MM-DD-YYYY) | English Translation Provided? |
| | AI | | | | |
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| | | NON PATENT LITERATURE DOCUMENTS |
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| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page number(s), volume-issue number(s), publisher, city and/or country where published. |
| a.W. | AL | ZHAO, FENG; GUIBAS, LEONIDAS J.; Wireless Sensor Networks: An Information Processing Approach. San Francisco: Morgan Kaufmann Publishers-Elsevier Inc., bearing a copyright date of 2004. |
| | AM | |
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| Examiner | 11 | Wendell | Date | 12/20/2005 |
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| | | U.S. PAT | ENT DOCUMENTS | |
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| Examiner Initials | Cite No. | U.S. Patent Number | Name of Patentee | Date of Publication (MM-DD-YYYY) |
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| _ | | FOREIGN PATEN | T DOCUMENTS | | |
|----------------------|-------------|-----------------|-------------|---------------------------------|-------------------------------------|
| Examiner Initials | Cite No. | Document Number | Country | Date of Publication (MM-DD-YYY) | English Translation Provided? |
| | AB | | | | |

| | C | OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |
|----------------------|-------------|--|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date. page(s), volume-issue number(s), publisher, city and/or country where published. |
| Q,W· | AC | BERKELY WEBS: WIRELESS EMBEDDED SYSTEMS, "Building Sensor Networks with TinyOS" May 5, 2003 Mobisys Tutorial, San Francisco Powerpoint Presentation, Culler, David; Levis, Phil; Szewczyk, Rob; Polastre, Joe; pp. 1-41 located at http://webs.cs.berkeley.edu , printed on 04/15/04. |
| a,U. | AD | BERKELEY WEBS: WIRELESS EMBEDDED SYSTEMS, "Publications", pp. 1-3, located at http://webs.cs.berkeley.edu/publications.html , printed on 04/12/04 |
| U.U. | AE | BERKELEY WEBS: WIRELESS EMBEDDED SYSTEMS, "Tiny OS a component-based OS for the networked sensor regime", "Latest News", pp. 1-2 located at http://webs.cs.berkeley.edu/tos/ , printed on 01/27/04. |
| a.W. | AF | BERKELEY WEBS: WIRELESS EMBEDDED SYSTEMS, "Tiny OS a component-based OS for the networked sensor regime", "Publications/Presentations", pp. 1-3 located at http://www.tinyos.net/media.html , printed on 04/13/04. |
| a,W, | AG | BERKELEY WEBS: WIRELESS EMBEDDED SYSTEMS, "Tiny OS a component-based OS for the networked sensor regime", "Related UC Berkeley Work", pp. 1-9 located at http://webs.cs.berkeley.edu/tos/related.html , printed on 01/27/04. |
| a.U. | АН | BERKELEY WEBS: WIRELESS EMBEDDED SYSTEMS, "Tiny OS Tutorial Index", pp. 1-2 located at http://webs.cs.berkeley.edu/tos/tinyos-1.x/doc/tutorial/index.html , printed on 04/15/04. |
| acw, | AI | BERKELEY WEBS: WIRELESS EMBEDDED SYSTEMS, "Tiny OS Tutorial Lesson 8: Data Logging Application", pp. 1-4 located at http://webs.cs.berkeley.edu/tos/tinyos-1.x/doc/tutorial/lesson8.html , printed on 04/15/04. |
| a,w, | AJ | CENTER FOR THE BUILT ENVIRONMENT, "XYZ On A Chip: Integrated Wireless Sensor Networks for the Control of the Indoor Environment in Buildings" pp. 1-2, located at http://www.cbe.berkeley.edu/research/briefs-wirelessxyz.htm , bearing a date of 2002, printed on 01/27/04. |

| Examiner | (1) | Wendel | Date | 12/20/2005 |
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| Signature | Undew | Wendel | Considered | 12/24 2005 |

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| | Group Art Unit | To be Assigned |
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| Page 2 of 4 | Attorney Docket Number | 0104-003-006-000000 |

| Initials No AK G. W. AND G | (| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |
|--|-------------|--|
| (1, W. AN (1, W. | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date. page(s), volume-issue number(s), publisher, city and/or country where published. |
| Q. W. Q. W. AN Q. W. AC Q. W. AS Q. W. AT Q. W. AU Q. W. AU | AK | CITRIS, "Brainy Buildings Conserve Energy" p. 1-3 located at http://www.citris.berkeley.edu/applications/energy/smartbuildings.html , printed on 01/27/04. |
| (i, W. AN | AL | CITRIS, "The Real World as One Giant Database" pp. 1-3 located at http://www.citris.berkeley.edu/newsletter/2003 Newsletters/december 2003/feature.ht m, bearing a date of 2003, printed on 04/09/04. |
| Q.W. AC Q.W. AC Q.W. AC Q.W. AC Q.W. AC Q.W. AS Q.W. AS | AM | "Data Repository", University of California Berkeley, located at http://localization.millennium.berkeley.edu/data_repository.html , pp. 1 of 1, bearing a date of 2001, printed on 04/07/04. |
| AP A,W, AP A,W, AS A,W, AS A,W, AT A,W, AT | AN | GELSINGER, PAT; Intel.com, "Expanding Moore's Law with Convergance" pp. 1-4 located at http://www.intel.com/labs/features/em101031.htm , printed on 04/09/04. |
| a.w. AR a.w. AS a.w. AS a.w. AT a.w. AT | AO | INTEL.COM, "New Computing Frontiers-The Wireless Vineyard" pp. 1-4 located at http://www.intel.com/labs/features/rs01031.htm , printed on 04/07/04. |
| a.w. AT | AP | ISIS NEST: Institute For Software Integrated Systems; "NEST Home: Network Embedded Systems Technology", pp. 1-2, located at http://www.isis.vanderbilt.edu/projects.nest/index.html , printed on 04/14/04. |
| a.W. AS a.W. AT a.V. AU | AQ | ISIS NEST: Institute For Software Integrated Systems; "Applications: Shooter Localizations", pp. 1-5, located at http://www.isis.vanderbilt.edu/projects.nest/applications.html , printed on 04/14/04. |
| U.W. AT U.V. AU | AR | ISIS NEST: Institute For Software Integrated Systems; "Middleware: Next Middleware Services", pp. 1 of 1, located at http://www.isis.vanderbilt.edu/projects.nest/middleware.html, printed on 04/14/04. |
| a.v. Au | AS | ISIS NEST: Institute For Software Integrated Systems; "Tools: NEST Tools", pp. 1 of 1, located at http://www.isis.vanderbilt.edu/projects.nest/tools.html , printed on 04/14/04. |
| a,v. | AT | ISIS NEST: Institute For Software Integrated Systems; "Documents: NEST Documents", pp. 1-2, located at http://www.isis.vanderbilt.edu/projects.nest/documents.html , printed on 04/14/04. |
| a.W. AV | AU | ISIS NEST: Institute For Software Integrated Systems; "Download: NEST Download", pp. 1-2, located at http://www.isis.vanderbilt.edu/projects.nest/download.html, printed on 04/14/04. |
| | AV | ISIS NEST: Institute For Software Integrated Systems; "People: The NEST Group", pp. 1 of 1, located at http://www.isis.vanderbilt.edu/projects.nest/people.html , printed on 04/14/04. |
| a.W. | AW | JOHNSON, R. COLIN, "Companies test prototype wireless-sensor nets" EE Times, pp. 1-3, printable version of article located at http://www.eet.com/article/showArticle.jhtml?articleID=9900910 , bearing a date of 01/29/03, printed on 01/27/04. |

| Examiner Signature Wendel Con | ate 12/20/2005 |
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Application Number 10/813,967 SUPPLEMENTAL INFORMATION March 31, 2004 Filing Date DISCLOSURE STATEMENT BY First Named Inventor Clarence T. Tegreene **APPLICANTS** Group Art Unit To be Assigned **Examiner Name** To be Assigned Attorney Docket Number 0104-003-006-000000 Page 3 of 4 OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Examiner Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item Cite Initials (book, magazine, journal, serial, symposium, catalog, etc.), date. page(s), volume-issue number(s), No. publisher, city and/or country where published. KAHN, KEVIN C.; CULLER, DAVID E.; "Ad Hoc Sensor Networks A New Frontier a.W. AX for Computing Applications" bearing a date of April 2002, printed on 04/09/04. KLING, RALPH, "Intel® Research Mote" pp. 1-13, Powerpoint Presentation, located ΑY a.W. at http://webs.cs.berkeley.edu/retreat-1-03/slides/imote-nest-q103-03-dist.pdf, Intel Corporation Research, Santa Clara, CA, printed on 04/13/04. LEVIS, PHILIP; CULLER, DAVID; "Maté: A Tiny Virtual Machine for Sensor a. W. ΑZ Networks", pp. 1-11, printed on 04/12/04 LEVIS, PHILIP; MADDEN, SAM; GAY, DAVID; POLASTRE, JOSEPH; BA SZEWCZYK, ROBERT; WOO, ALEC; BREWER, ERIC; CULLER, DAVID; "The a.W. Emergence of Networking Abstractions and Techniques in TinyOS" pp. 1-14, printed on 04/13/04. LEVIS, PHILIP; PATEL, NEIL; CULLER, DAVID; SHENKER, SCOTT; "Trickle: BBail A Self-Regulating Algorithm for Code Propagation and Maintenance in Wireless Sensor Networks", printed on 04/13/04. BC LEVIS, PHILIP; PATEL, NEIL; "Maté: Building Application-Specific Sensor u.W. Network Language Runtimes", bearing a date of 11/11/03, printed on 04/12/04 BD "LOCALIZATION Distributed Embedded Systems" UCLA Computer Science 213: Localization Systems Powerpoint Presentation, pp. 1-61, bearing a course name of: aw. CS 213/Estrin/Winter 2003, bearing a speaker name of: Lewis Girod, bearing a date of 02/04/03, printed on 03/15/04. "Localization.Millennium.Berkeley.Edu", University of California Berkeley, located at BE G. W. http://localization.millennium.berkeley.edu/introduction.html, pp. 1 of 1, bearing a date of 2001, printed on 04/07/04. "Localization Standards", University of California Berkeley, located at BF N.W. http://localization.millennium.berkeley.edu/localization_standards.html, pp. 1 of 1, bearing a date of 2001, printed on 04/07/04. MARÓTI, MIKLÓS; VÖLGYESI, PÉTER; SIMON, GYULA; KARSAI, GÁBOR; BG a.V. LÉDECZI, AKOS; "Distributed Middleware Services Composition and Synthesis Technology"; pp. 1-8, IEEE, bearing a date of 2002, printed on 04/14/04. PESCOVITZ, DAVID, "Robugs: Smart Dust Has Legs" pp. 1-2, located at BH (W. http://www.coe.berkeley.edu/labnotes/0903/pister_print.html, bearing a date of September 2003, printed on 04/09/04. RAGHUNATHAN, VIJAY; SCHURGERS, CURT; PARK, SUNG; SRIVASTAVA, ΒI W.W. MANI B.; "Energy Aware Wireless Sensor Networks" pp. 1-17; Department of Electrical Engineering, University of California, Los Angeles; printed on 03/15/04. SAVVIDES, ANDREAS; "Hardware", pp. 1-3, located at BJ G. W. http://nesl.ee.ucle.edu/projects/ahlos/hardware.htm, Networks and Embedded Systems Lab, University of California, Los Angeles; bearing a date of 01/18/03, printed on 02/23/04.

Examiner

Date

Considered

12/20/2005

| | | | Application Number | 10/813,967 |
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| SUPPLEMENTAL INFORMATION | | | Filing Date | March 31, 2004 |
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| | A) | PPLICANTS | Group Art Unit | To be Assigned |
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| Page 4 of | 4 | | Attorney Docket Number | 0104-003-006-000000 |
| | (| OTHER PRIOR ART – NON PA | TENT LITERATURE DOCUM | IENTS |
| Examiner Initials | Cite No. | , | | |
| G, W. | BK. | SAVVIDES, ANDREAS; "Localization Forum", pp.1 of 1, located at http://nesl.ee.ucla.edu/projects/ahlos/localization_forum.htm , Networks and Embedded Systems Lab, University of California, Los Angeles; bearing a date of 12/24/03, printed on 02/23/04. | | |
| a.W. | BL | "The Ad-Hoc Localization System (AHLoS)" Networks and Embedded Systems Lab, University of California, Los Angeles; located at http://nesl.ee.ucla.edu/projects/ahlos/Default.htm , pp. 1-4, printed on 02/23/04. | | |
| a.W. | ВМ | "Tiny DB A Declarative Database for Sensor Networks" pp. 1-2, located at http://telegraph.cs.berkeley.edu/tinydb/ printed on 04/09/04. | | |
| a.W. | BN. | TINY SEC: LINK LAYER SECURITY FOR TINY DEVICES, "Calamari: A localization system for sensor networks", pp. 1-6, located at http://www.cs.berkeley.edu/~kamin/calamari/ printed on 04/12/04. | | |
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| Examiner Signature Archer Wendell | Date Considered | 12/20/2005 |
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| | Examiner Name | To be Assigned |
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| U.S. PATENT DOCUMENTS | | | | | | |
|--|----|-----------------|-------------------|------------|--|--|
| Examiner Initials Cite No. Cite U.S. Patent Number Name of Patentee Date of Publication (MM-DD-YYYY) | | | | | | |
| aw. | AA | 2004/0005889 A1 | Nishimura, et al. | 01-08-2004 | | |
| a:W. | AB | 2003/0236866 A1 | John J. Light | 12-25-2003 | | |
| a.w. | AC | 2003/0172221 A1 | Donald H. McNeil | 09-11-2003 | | |
| a.w. | AD | 2002/0040639 A1 | Duddleson, et al. | 04-11-2002 | | |

| | | FOREIGN PATEN | T DOCUMENTS | | |
|----------------------|-------------|-----------------|-------------|------------------------------------|-------------------------------------|
| Examiner Initials | Cite No. | Document Number | Country | Date of Publication (MM-DD-YYY) | English Translation Provided? |
| | AE | | | | |

| | C | OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |
|----------------------|-------------|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date. page(s), volume-issue number(s), publisher, city and/or country where published. |
| Ûw | AF | BUONADONNA, PHILLIP; HILL, JASON; CULLER, DAVID; "Active Message Communication for Tiny Networked Sensors," pp. 1-11, printed on 03/08/2004. |
| G.W. | AG | GAY, DAVID; LEVIS, PHIL; VON BEHREN; WELSH, MATT; BREWER, ERIC; and CULLER, DAVID, "The nesCLanguage: A Holistic Approach to Network Embedded Systems," pp. 1-10; Intel Research Berkeley, The Intel Corporation, November 2002. |
| 9.W. | АН | HILL, JASON; SZEWCZYK, ROBERT; WOO, ALEC; HOLLAR, SETH; CULLER, DAVID; PISTER, KRISTOFER, "System Architecture Directions for Networked Sensors," ASPLOS 2000, Cambridge, November 2000. |
| aw, | AI | INTEL.COM, "Exploratory Research Deep Networking" pp. 1-10 located at http://www.intel.com/research/exploratory/heterogenerous.htm , printed on 03/25/04. |
| a.W. | AJ | LEVIS, PHILIP, "Viral Code Propagation in Wireless Sensor Networks," EECS Department, University of California at Berkeley, printed on 03/08/2004. |
| a.W. | AK | LISCANO, RAMIRO, "Service Discovery in Sensor Networks: An Overview" Powerpoint Presentation; pp.1-51; School of Information Technology and Engineering, University of Ottawa, Ottawa, CANADA, bearing a date of 2003, printed on 03/08/2004. |
| ach. | AL | MADDEN, SAMUEL, "Acquisitional Query Processing in TinyDB" Powerpoint Presentation, pp. 1-51; NEST Winter Retreat 2003, printed on 03/08/2004. |
| a.W. | AM | MADDEN, SAMUEL, "Challenges in Sensor Network Query Processing" Powerpoint Presentation at the January 15, 2002 NEST Retreat, printed on 03/08/2004. |

| Examiner Signature Onder Wendell | Date Considered | 12/20/2005 |
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| a.W. | AN | MADDEN, SAMUEL; SZEWCZYK, R.; FRANKLIN, MICHAEL; and CULLER, DAVID "Supporting Aggregate Queries Over Ad-Hoc Wireless Sensor Networks," pp. 1-10, printed on 03/08/04. |
| Û.W. | AO | MADDEN, SAMUEL; SZEWCZYK, R.; FRANKLIN, MICHAEL; CULLER, DAVID "Supporting Aggregate Queries Over Ad-Hoc Wireless Sensor Networks" Powerpoint Presentation, pp. 1-47, 4 th IEEE Workshop on Mobile Computing, dated June 21, 2002. |
| a.w. | AP | MADDEN, SAMUEL; FRANKLIN, MICHAEL J.; HELLERSTEIN, JOSEPH; M., and HONG, WEI, "The Design of an Acquisitional Query Processor for Sensor Networks," pp. 1-14, SIGMOD, June 2003. |
| U,W. | AQ | RYER, ALEX; Light Measurement Handbook, http://www.intl-light.com/handbook; pp. 1-64, copyright 1997, printed on 03/08/2004 |
| U.V. | AR | SEARCHMOBILECOMPUTING.COM, "Ad-Hoc Network" pp. 1-3 located at http://searchmobilecomputing.techtarget.com/sDefinition/0,.sid40_gci213462,00.html , bearing a date of April 11, 2003, printed on 03/08/2004. |
| a.W. | AS | SEARCHNETWORKING.COM DEFINITIONS, "Jini" pp. 1-3 located at http://searchnetworking.techtarget.com/sDefinition/0,.sid7 gci212422,00.html, bearing a date of April 10, 2003, printed on 03/08/2004. |
| U.W. | AT | SPYROPOULOS, AKIS; RAGHAVENDRA, C.S., "Energy Efficient Communications in Ad Hoc Networks Using Directional Antennas," Dept. of Electrical Engineering-Systems, University of Southern California, bearing a date of 2002, printed on 02/23/2004. |
| a, w. | AU | VISWANATH, KUMAR, "Adaptive, Integrated Multicast Routing for Group Communications in Ad-Hoc Networks" Powerpoint Presentation, pp. 1-12; Computer Engineering Department, University of California, Santa Cruz, printed on 03/08/2004. |
| U.W. | AV | WOO, ALEC; TONG, TERENCE; and CULLER, DAVID, "Taming the Underlying Challenges of Reliable Multihop Routing in Sensor Networks," pp. 1-14, SenSys '03, November 5-7, 2003, Los Angeles, California, USA. |
| | AW | |
| | AX | |
| | AY | |
| | AZ | |
| | BA BB | |
| | BC | |
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